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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:  
Stephen A. FACTOR, et al

Application Number: 10/721,156

Filed: November 25, 2003

For: Mixed Metal Catalyst Additive and Method for Use  
In Hydrocarbonaceous fuel Combustion System

Confirmation No.: 5545

**CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8**

I hereby certify that this correspondence is being deposited with the United States Postal Service as first-class U.S. Mail on **July 19, 2004** with sufficient postage in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

  
Beth Earnest

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

**TRANSMITTAL**

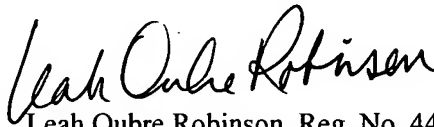
Sir:

Transmitted herewith are the following in the subject application:

- Information Disclosure Statement (no fee)
- Form PTO/SB/08A listing 15 references and attaching 6 references
- Return Postcard (attached hereto, but not stapled)

It is believed that there are no fees associated with this filing. However, in the event the calculations are incorrect, the Commissioner is authorized to charge any deficiencies in fees or credit any overpayment associated with this communication to Deposit Account No. 05-1372. This paper is submitted in duplicate.

Respectfully submitted,



Leah Oubre Robinson, Reg. No. 44,990

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Richmond, VA 23219  
Phone: 804-788-5498; FAX: 804-788-5519

Date: **July 19, 2004**



IDS  
U.S. Application No. 10/721,156  
Attorney Docket No. EI-7615

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

<b>In re Patent Application of:</b>	)	
<b>Stephen A. FACTOR, et al.</b>	)	
	)	
<b>Application No.: 10/721,156</b>	)	<b>Confirmation No.: 5545</b>
	)	
<b>Filed: November 25, 2003</b>	)	
	)	
<b>For: Mixed Metal Catalyst Additive</b>	)	
<b>and Method for Use in</b>	)	
<b>Hydrocarbonaceous Fuel Combustion</b>	)	
<b>System</b>	)	

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

Sir:

Pursuant to the duty of disclosure, Applicants submit herewith information which may be material to the examination of the above-captioned application.

Specifically, the information comprises references that have become known to Applicants and their attorneys. Those references are listed on the enclosed form PTO/SB/08A. Listed foreign patent documents and non-patent literature documents are enclosed.

It is respectfully requested that these references be fully considered in their entirety, and that the references be made of record in the above-captioned application. It is also respectfully requested that the Examiner initial in the appropriate area on the enclosed Form PTO/SB/08A, thereby indicating the Examiner's consideration of each of the references.

**Fees**

As this Information Disclosure Statement is submitted before the date of a first Office Action on the merits, it is believed that no fees are due. However, in the event the calculations are

incorrect, the Commissioner is authorized to charge any deficiencies in fees or credit any overpayment associated with this communication to Deposit Account No. 05-1372.

Conclusion

It is believed that all provisions of 37 CFR 1.97 have been complied with, and consideration of these references is most respectfully requested.

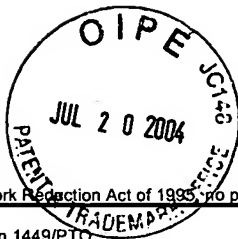
Respectfully Submitted,

A handwritten signature in black ink, reading "Leah Oubre Robinson". The signature is fluid and cursive, with the first name "Leah" being the most prominent.

Leah Oubre Robinson, Reg. No. 44,990

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Phone: 804-788-5498  
FAX: 804-788-5519

Date: **July 19, 2004**



PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

**Complete if Known**

Application Number	10/721,156
Filing Date	November 25, 2003
First Named Inventor	Stephen A. FACTOR, et al.
Art Unit	Unassigned; Conf. No.: 5545
Examiner Name	Unassigned
Attorney Docket Number	EI-7615

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
		US- 2818417	12-31-1957	Brown, et al.	
		US- 4568357	02-04-1986	Simon	
		US- 4674447	06-23-1987	Davis	
		US- 5113803	05-19-1992	Hollran, et al.	
		US- 5599357	02-04-1997	Leeper	
		US- 5919276	07-06-1999	Jeffrey	
		US- 5944858	08-31-1999	Wallace	
		US- 6197075	03-06-2001	Muir, et al.	
		US- 6632257	10-14-2003	Feitelberg, et al.	
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**FOREIGN PATENT DOCUMENTS**

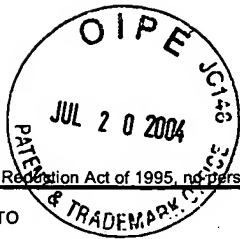
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		EP 0 466 512 B1	06-29-1994	Leeper		

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(Use as many sheets as necessary)

Sheet

2

of

2

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First Named Inventor	Stephen A. FACTOR, et al.
Art Unit	Unassigned; Conf. No.: 5545
Examiner Name	Unassigned
Attorney Docket Number	EI-7615

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		DOBBINS et al., "The Evolution of Soot Precursor Particles in a Diffusion Flame," Combustion and Flame, 115, pp 285-298 (1998).	
		VANDER WAL et al., "Soot Oxidation: Dependence Upon Initial Nanostructure," Combustion and Flame, 134, pp 1-9, (2003).	
		HAYNES et al., "The Effect of Metal Additives on the Formation of Soot in Premixed Flames," 17th Symposium on Combustion, pp 1365-1374, The Combustion Institute 1979.	
		HOWARD et al., "Soot Control by Fuel Additives," Prog. Energy Combust. Sci., Vol. 6, pp 263-276, Pergamon Press Ltd. 1980.	
		COTTON et al., "The Suppression of Soot Emissions From Flames by Metal Additives," Combustion and Flame, 17, p. 87 (1971).	

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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